



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-P31-840-A-POE AMBIENT ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB] GEN from Intertek  
 [ISSUEDATE] 17-AUG-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836  
 [LUMINAIRE] 2X2' LED TROFFER  
 [MORE] FROSTED ACRYLIC DIFFUSER  
 [LUMCAT] AMD2AEG-P31-840-A-PoE AMBIENT ONLY  
 [LAMPCAT] HLM 80 CRI, 4000K CCT  
 [ \_SEARCH\_SOURCE] LED  
 [ \_SEARCH\_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION  
 [ \_SEARCH\_MOUNTING] RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3127
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	25.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3064	3062	3176
55	2544	2741	2841
65	1983	2281	1880
75	1474	1469	1091
85	947	723	583

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1362.941	1362.941	1362.941	1362.941	1362.941
2.5	1362.099	1359.571	1358.404	1361.386	1363.006
5.0	1358.339	1355.098	1352.635	1353.413	1354.968
7.5	1350.107	1345.375	1342.004	1341.097	1339.346
10.0	1337.207	1331.762	1325.410	1323.011	1321.002
12.5	1319.705	1314.001	1305.639	1300.324	1296.110
15.0	1296.759	1290.665	1280.359	1272.904	1267.654
17.5	1269.339	1261.690	1250.281	1241.855	1235.826
20.0	1236.863	1228.696	1215.731	1206.591	1199.656
22.5	1199.915	1190.775	1177.422	1168.476	1161.929
25.0	1159.790	1149.095	1134.510	1126.731	1120.897
27.5	1116.943	1104.886	1090.237	1084.597	1080.319
30.0	1072.281	1059.705	1045.639	1041.426	1038.703
32.5	1024.767	1012.062	999.227	997.866	996.051
35.0	973.493	961.695	950.805	953.463	953.203
37.5	918.783	908.412	900.244	905.754	907.634
40.0	862.129	852.989	847.803	857.073	861.221
42.5	802.234	795.427	794.131	807.808	815.392
45.0	740.459	735.986	739.875	758.284	767.360
47.5	678.878	678.424	685.879	709.214	719.521
50.0	617.362	621.446	634.540	661.182	667.858
52.5	557.272	565.505	585.210	610.945	614.510
55.0	498.609	511.119	537.178	556.170	556.883
57.5	442.019	457.771	489.210	496.470	480.588
60.0	387.115	405.978	438.843	422.573	408.247
62.5	334.675	356.390	387.245	357.686	337.527
65.0	286.318	310.496	329.359	294.031	271.538
67.5	241.526	267.001	271.927	233.358	214.236
70.0	201.012	226.746	220.653	181.955	166.073
72.5	163.740	187.594	172.426	138.589	126.856
75.0	130.356	148.636	129.903	104.298	96.520
77.5	99.890	111.558	93.797	77.267	72.600
80.0	72.924	79.018	64.822	55.423	52.830
82.5	49.070	50.042	41.032	36.171	34.031
85.0	28.197	26.058	21.521	18.928	17.372
87.5	9.918	8.232	7.519	7.649	7.584
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.065	0.000	0.065
152.5	0.000	0.000	0.065	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.130	0.065	0.000	0.259	0.065
160.0	0.065	0.000	0.194	0.130	0.065
162.5	0.259	0.065	0.065	0.065	0.194
165.0	0.065	0.065	0.194	0.130	0.259
167.5	0.259	0.065	0.130	0.130	0.065
170.0	0.065	0.065	0.194	0.130	0.130
172.5	0.000	0.065	0.259	0.324	0.000
175.0	0.194	0.000	0.130	0.194	0.259
177.5	0.194	0.130	0.194	0.194	0.065
180.0	0.194	0.194	0.194	0.194	0.194

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	489.13	N.A.	15.60
0-30	1012.86	N.A.	32.40
0-40	1610.68	N.A.	51.50
0-60	2661.68	N.A.	85.10
0-80	3098.43	N.A.	99.10
0-90	3127.07	N.A.	100.00
10-90	2998.65	N.A.	95.90
20-40	1121.55	N.A.	35.90
20-50	1698.01	N.A.	54.30
40-70	1352.96	N.A.	43.30
60-80	436.75	N.A.	14.00
70-80	134.78	N.A.	4.30
80-90	28.64	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.07	N.A.	0.00
0-180	3127.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	128.42
10-20	360.71
20-30	523.73
30-40	597.82
40-50	576.46
50-60	474.54
60-70	301.97
70-80	134.78
80-90	28.64
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.02
160-170	0.03
170-180	0.01

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	134	134	134	134	131	131	131	131	125	125	125	120	120	120	115	115	115	113
1	124	119	115	111	121	117	113	109	112	109	106	107	105	102	103	101	99	97
2	114	105	98	92	111	103	97	91	99	94	89	95	91	87	92	88	85	83
3	104	93	85	78	102	91	84	77	88	81	76	85	79	75	82	77	73	71
4	96	83	74	67	93	82	73	66	79	71	66	76	70	65	74	68	64	61
5	89	75	65	58	86	74	65	58	71	63	57	69	62	57	67	61	56	54
6	82	68	58	51	80	67	58	51	65	57	51	63	56	50	61	55	50	47
7	76	62	52	46	74	61	52	45	59	51	45	57	50	45	56	49	44	42
8	71	56	47	41	69	56	47	41	54	46	41	53	46	40	52	45	40	38
9	67	52	43	37	65	51	43	37	50	42	37	49	42	37	48	41	36	34
10	62	48	39	34	61	48	39	34	46	39	34	45	38	33	44	38	33	31

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## UGR TABLE - CORRECTED

### Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

### Room Size UGR Viewed Crosswise

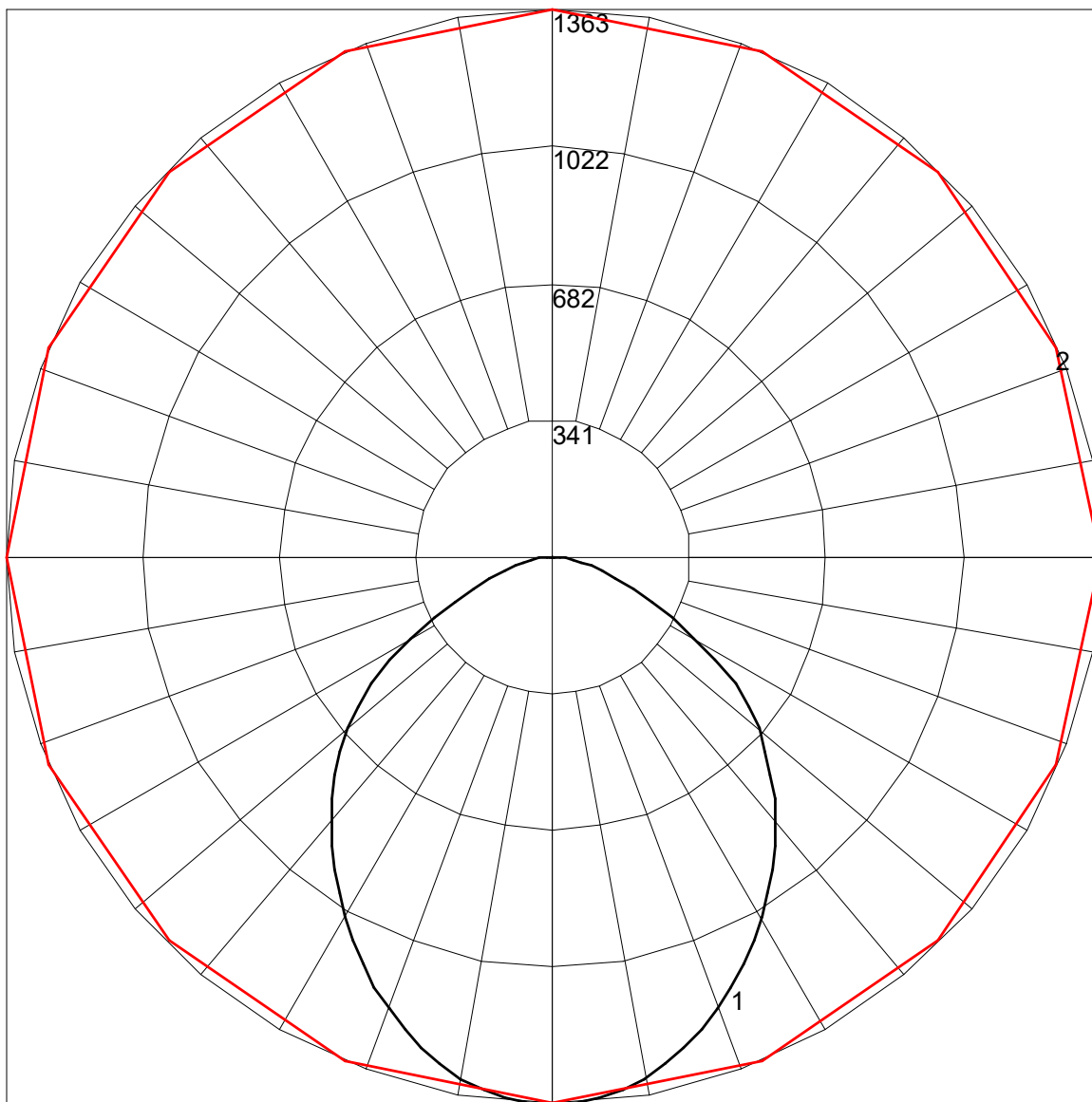
X=2H	Y=2H	14.6	16.2	15.0	16.5	16.8	15.2	16.7	15.5	17.0	17.3
	3H	16.0	17.4	16.3	17.7	18.0	16.0	17.4	16.4	17.7	18.1
	4H	16.4	17.7	16.8	18.1	18.4	16.2	17.5	16.6	17.9	18.3
	6H	16.7	17.9	17.1	18.3	18.7	16.4	17.6	16.8	17.9	18.3
	8H	16.8	17.9	17.2	18.3	18.7	16.4	17.5	16.8	17.9	18.3
	12H	16.8	17.9	17.2	18.3	18.7	16.4	17.5	16.8	17.9	18.3

### UGR Viewed Endwise

4H	2H	15.2	16.5	15.6	16.9	17.3	15.7	17.0	16.1	17.3	17.7
	3H	16.8	17.8	17.2	18.2	18.7	16.7	17.8	17.1	18.2	18.6
	4H	17.3	18.3	17.8	18.7	19.2	17.0	18.0	17.4	18.4	18.8
	6H	17.7	18.6	18.2	19.0	19.5	17.2	18.0	17.6	18.5	18.9
	8H	17.8	18.6	18.3	19.1	19.5	17.2	18.0	17.7	18.5	18.9
	12H	17.9	18.6	18.4	19.1	19.5	17.2	18.0	17.7	18.4	18.9
8H	4H	17.5	18.3	17.9	18.7	19.2	17.2	18.0	17.6	18.4	18.9
	6H	17.9	18.6	18.4	19.1	19.6	17.4	18.1	17.9	18.6	19.0
	8H	18.1	18.7	18.6	19.2	19.7	17.5	18.1	18.0	18.6	19.1
	12H	18.2	18.7	18.7	19.2	19.8	17.5	18.1	18.1	18.6	19.1
12H	4H	17.5	18.2	18.0	18.7	19.1	17.2	17.9	17.7	18.4	18.8
	6H	18.0	18.5	18.5	19.0	19.6	17.5	18.0	18.0	18.5	19.0
	8H	18.1	18.7	18.6	19.1	19.7	17.6	18.1	18.1	18.6	19.1

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 1363.006 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)